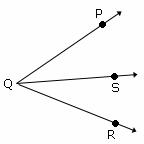
**Homework 11-FORM A Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Angle Addition Postulate Period: \_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Definition of Angle Addition Postulate: Example:**

Angle Addition Postulate states that if a point S lies in the interior of ∠PQR, then ∠PQS + ∠SQR = ∠PQR.

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| 1. Given *m*∠*ABC* = 94°, find *m*∠*CBD*    *m*∠ *ABD*  + *m*∠*DBC*  = *m*∠ *ABC*  (3x + 15) + (x + 7) = 94° | 2.Given *m*∠*QST* = 135°, find *m*∠*QSR.*    *m∠QST*- *m∠RST = m∠QSR*  135° - (2x – 6) = *m∠QSR* |
| 3. Find ∠*KLN* and ∠*MLN. \*****HINT****\* Linear Pair always = 180*° | 4. Find ∠*EFH* and ∠*HFG.* ***\*HINT\*****little box indicates a right angle* |
| 5. *BD* bisects ∠*ABC.* Find *m*∠*ABC.* | 6. *BD* bisects ∠*ABC.* Find *m*∠*ABC.* |
| 7. Use the diagram below to find the measure of *a°, b°, c°* and *d°.*  ***\*HINT\**** *label angles before doing calculations. One is done for you.*      *Verticle Angles* | |

**Mixed Review**

|  |  |
| --- | --- |
| 1. Graph the equation | 2. Find the solution set to the following inequality: |
| 3. What is the slope of the equation 9x + 5y = –20 |
| 4. Points *A*(–3, –2) and *B*(0, –1) are plotted in the (x, y) coordinate plane.  a. Find the slope of the line *AB*.  http://itech.pensacolastate.edu/falzone/images/slope1.gif  b. Find the midpoint of segment *AB.*  http://www.algebralab.org/img/3ac11930-acdc-4e5c-932b-f47e900ebef4.gif  c. Find the distance of segment *AB.*  http://t1.gstatic.com/images?q=tbn:ANd9GcTm6Me_U_doWwOIGSKd-IVvVSFQt-LfoGsYH9AaJSxGuIgjzhzxQN8gU5t-zA | 5. What are the values that satisfy the equation:  1st: Isolate the absolute value bars.  2nd: Set up two cases (switch the sign on case 2)  3rd: Start to remove what is farthest from the variable first. |
| 6. Solve the equation for V. |
| 7. Determine whether the point (3, 0) is on the line 3x + y = 9. |